DSCI 232 Business Statistics II

Professor: Dr. Marvin Gonzalez (Dr. G)
Meeting Times: MWF (see your schedule)
Office Hours: TR 10-12 AM /TR 1- 2 PM by Appointment.

Course Description:
Advanced statistical analysis with applications in business and economics utilizing relevant computer software. Topics include business applications in descriptive and inferential statistics emphasizing such topics as simple and multiple regression, analysis of variance, forecasting, quality control, and non-parametric techniques.

Prerequisite
MATH 104 or MATH 250, which covered probability concepts, descriptive statistics, binomial and normal distributions, confidence intervals, and tests of hypotheses. Although knowledge on these topics is expected, we will briefly review the most important topics in class. HOWEVER, THE PROFESSOR WON’T EXPLAIN IN DETAIL WHAT WAS EXPECTED FROM THE STUDENT TO LEARN IN MATH 104 or MATH 250.

Learning Objectives:
1. Interpret business data using descriptive statistics techniques, including the use of spreadsheet functions.
2. Apply simple concepts of probability distributions to business problems, solving for statistics (given probabilities) and probabilities (given statistics) for normal, t-Student, Chi-Squared and F distributions.
3. Use statistical tests to make inferences about a population based on a sample.
4. Apply hypothesis testing for one and two populations to test for means and proportions in business applications.
5. Apply ANOVA and goodness of fit for testing for differences among multiple populations in business applications.
6. Apply Chi-Squared tests and regression for testing relationships between variables for business decision-making.

This course addresses the following SBE learning goal:
Problem Solving Ability (every day for solving statistics problems in business applications).

Text and Course Materials:

Grading and Evaluation:

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<th>LETTER GRADE</th>
<th>&gt;= 95</th>
<th>73-75.99</th>
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<td>76-79.99</td>
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Exam 1 (Ch. 1, 2, 3-4) (02/16/2015) 10%
Exam 2 (Ch.4-5-6) (03/23/2015) 25%
Exam 3 (Ch. 7,8) (04/17/2015) 10%
Homework/Quizzes 20%
Final Exam (Cumulative) (check college calendar) 35%
E-mail Business Etiquette

E-Mail will be responded in **24-48 hours** (except on Weekends, no Weekends answers). Do not abandon business etiquette in your use of e-mail! **I will not respond to e-mails if you do not follow the below guidelines:**

- Business-like writing style (Dear Dr. Gonzalez, Professor G, Dr. G, etc, sincerely etc.)
- Be concise and to the point.
- E-mail alias so recipient sees your full name, or your full name with @g.cofc.edu, in his/her e-mail inbox.
- Subject line meaningful to recipient (identify your class DSCI 232-XXX). Always include this as your subject line!!! Including section number.
- Content clear states the purpose of the e-mail including any action to be taken from the professor.
- Clear signature block with your full name, postal mailing address and return e-mail address (obviously there is no handwritten signature, nor do I require a digital signature).
- Be careful about including quotations and sayings in your signature block. Obviously don't include anything that has potential to be offensive or misunderstood. Think about the impression your message sends to someone who doesn't know you, and be judicious.

Policies and Procedures

**Attendance Policies (non-negotiable policy)**

- Students are expected to attend classes. You cannot expect to have a thorough grasp of the material if you miss class. You are responsible for all material or assignments that are covered in class.
- **Students ARE ALLOWED TO MISS ONLY TWO CLASS without any penalty. If you miss more than two sessions, your will lose a letter grade per absence. NON-NEGOTIABLE. You don't have to come to the professor to excuse your absence, any absence counts for this rule!!!**
- Attendance will be taken randomly in different time periods of the class. If you are absent at the time of attendance signing, it is considered absence. If you come in late and the attendance has already been passed, you will be considered absent. **Don't bother to justify your absence since both justified and unjustified absences count for this rule.**
- If you miss a session, the professor WON'T repeat the missed material on office hours, it is your responsibility to read on your own and ask your classmates for missing concepts.

**Withdrawal Policy**

The professor does not process Instructor Withdrawals for any reason.

**Missing Exams/Quizzes**

- No makeup exams will be given. It is impossible to make an equivalent exam without the student at either an advantage or disadvantage. If you miss an exam, with or without a legitimate excuse, you will have a zero for that exam. This policy is non-negotiable.
- No makeup quizzes will be given. This policy is non-negotiable. If you registered late for the course and you missed any quizzes, you will have zero on those missing quizzes. The professor cannot wait until the last day to add/drop to start the class.

**SNAP Students/Special Accommodations/Athletes**

- Students that require special accommodations for exams or athletes must talk to the professor no later than ONE week after the semester start and provide necessary documentation.
- SNAP students are responsible to remind the professor one week in advance before each exam to allow the professor enough preparation time. If a student fails to remind the professor one week in advance before each exam, the student will have the same evaluation time as the rest of the class for that particular exam.

**College of Charleston Honor Code**

All work that you submit in this course must be your own; unauthorized group efforts will be considered academic dishonesty. This is particularly important with regards to assignments and exams. The sharing or copying of program files (e.g., spreadsheets) is a form of plagiarism. Academic dishonesty is a serious offense, which may result in a failing grade for the course and/or report to the Honor Board for evaluation. If copying is involved, both parties will be judged equally guilty.

**Professional Behavior Guidelines:**

- **Tardiness:** Please arrive on time. If you are later than the start of the class for three times in the semester, it will count as one missed class. If you are late in a quiz day, you have until the other students finish the quiz, the time will not start when you come into the classroom.
• **Side Conversations:** Side conversations make it difficult for your classmates to actively listen and learn.
• **Sleeping:** falling asleep in class is not considered professional behavior.
• **Inattention:** Please don’t read other material (chat, browsing the web, books) or study for other courses during my class. It’s not polite. Please pay attention and join in the individual and group discussions. It will help you master the material.
• **Cell Phone:** Please set your cell phone to silent mode while you are in the class. Cell rings can disturb your classmates as well as me.
• **Printing:** Do not print outside work during class. I will turn off the printer at the beginning of class to prevent any interruption to the class.
• **Navigating or other computer tasks different than class matters:** It is not polite to be doing course work or assignments other than the ones required in class. Also, it is not polite to navigate internet or check email while in class. One point will be taken out from your final grade for every time you do this in class. If you finish your work before other classmates, you might ask for permission to do other work in the computer and until given, you should not do other work.

**Miscellaneous Policies:**
• Although I will try to maintain the class schedule and objectives, I may need to make adjustments. You are responsible to check OAKS CALENDAR for the most recent calendar of activities and dates. Don’t ask the professor about quizzes or exams dates, since she will not give you as accurate information as the OAKS Calendar.
• I **do not give additional projects to increase one’s grade before or after the exam(s).** The professor does not round grades; a 59.9 total grade is an F.

**Complaints about Exams**
• The professor encourages students to review in detail when exams are returned. You have two days after the graded evaluation was given to you to make any questions or complaints about it. If that time is passed, it means you have accepted the grade given.

• **No complaints are accepted for any reason if the two days period has passed (non-negotiable)**

**Topical Coverage**
1. Introduction. Descriptive Statistics.
2. Continuous Probability Distributions: Normal, t-Student, Chi-Squared and F.
3. Interval Estimation.
4. Hypothesis Testing – One Population
5. Hypothesis Testing – Two Populations
6. ANOVA Single Factor
7. Goodness of Fit Test
8. Test of Independence
9. Simple Regression
10. Multiple Regression

You will find the most updated schedule in OAKS schedule!

**SPECIAL NOTE:**
There are two designated storm days on the academic calendar—Saturday, January 31 and Tuesday, April 28 (reading day). We will use them if any cancelation for weather happens during the semester. Any storm day use COUNT as a regular class…Be aware